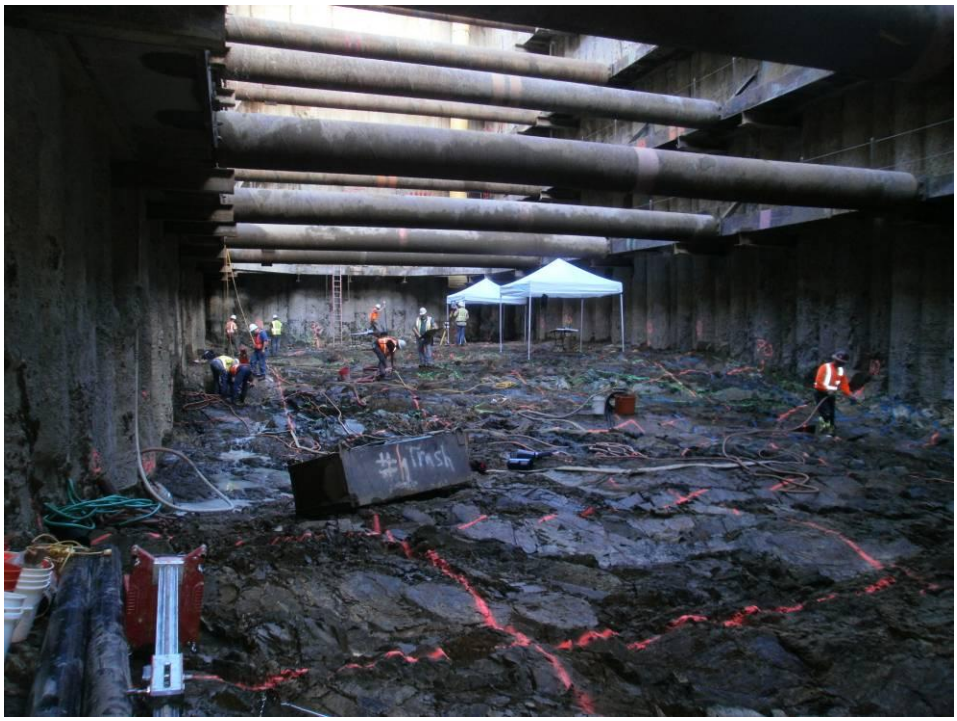
RECLAMATION

Managing Water in the West

MP CONSTRUCTION OFFICE

Willows, California

Construction Progress Report – L29



Folsom Dam – Safety of Dams Modification – MIAD Key-Block
Geologic mapping in Cell C - Reclamation geologists, engineers
and surveyors collecting foundation data

November 2012

"Doing It Right from the Start"

U.S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Region

CONSTRUCTION PROGRESS REPORT (L-29)
MP CONSTRUCTION OFFICE
MID-PACIFIC REGION
November 2012

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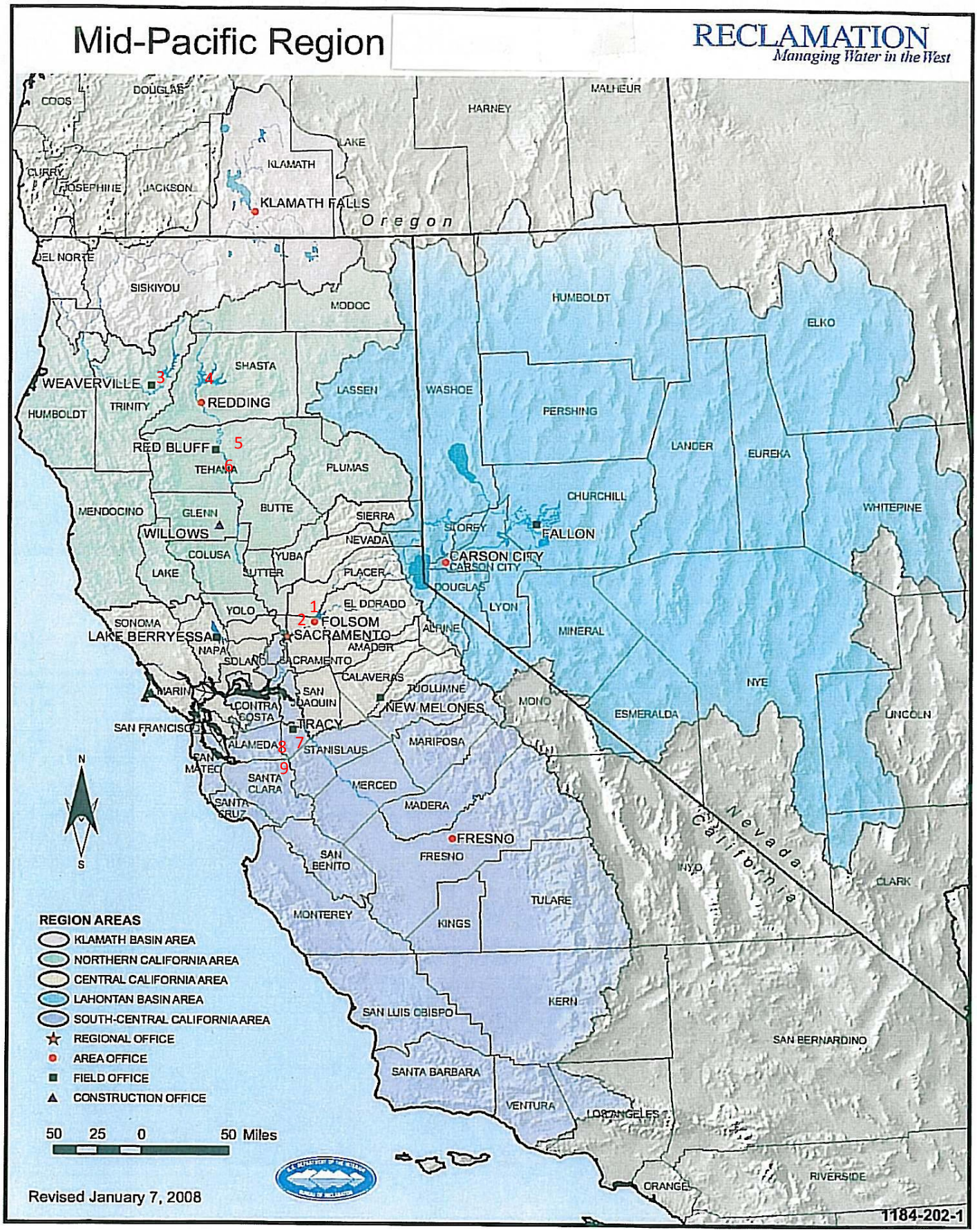
Mid-Pacific Region
RECLAMATION
Managing Water in the West
COOS
DOUGLAS
HARNEY
MALHEUR
LAKE
KLAMATH
CURRY
JOSEPHINE
JACKSON
KLAMATH FALLS
Oregon
DEL NORTE
SISKIYOU
MODOC
HUMBOLDT
ELKO
SHASTA
WEAVERVILLE
3
4
LASSEN
WASHOE
TRINITY
REDDING
PERSHING
HUMBOLDT
LANDER
EUREKA
RED BLUFF
5
6
TEHAMA
PLUMAS
CHURCHILL
MENDOCINO
GLENN
BUTTE
SIERRA
WHITEPINE
WILLOWS
STOREY
FALLON
NEVADA
COLUSA
YUBA
CARSON CITY
CARSON CITY
LAKE
SUTTER
PLACER
DOUGLAS
EL DORADO
1
YOLO
LYON
SONOMA
2
FOLSOM
ALPINE
LAKE BERRYESSA
SACRAMENTO
MINERAL
NAPA
AMADOR
SOLANO
SACRAMENTO
CALAVERAS
NYE
MARIN
SAN
JOAQUIN
TUOLUMNE
MONO
CONTRA
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ESMERALDA
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CLARK
TULARE
MONTEREY
KINGS
KERN
SAN LUIS OBISPO
SAN BERNARDINO
SANTA BARBARA
VENTURA
LOS ANGELES
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REGION AREAS
KLAMATH BASIN AREA
NORTHERN CALIFORNIA AREA
CENTRAL CALIFORNIA AREA
LAHONTAN BASIN AREA
SOUTH-CENTRAL CALIFORNIA AREA
REGIONAL OFFICE
AREA OFFICE
FIELD OFFICE
CONSTRUCTION OFFICE
50 25 0 50 Miles
Revised January 7, 2008
1184-202-1

STAFFING – MID PACIFIC CONSTRUCTION OFFICE

The Mid Pacific Construction Office had 64 construction and administrative employees at the close of this month as follows:

Construction Engineer's Office	2
Preaward & Project Management Group	3
Administrative Management	11
Division of Field Engineering	27
Division of Office Engineering	11
Materials Lab Branch	9

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

	MEANING
ARRA	American Recovery and Reinvestment Act
CCAO	Central California Area Office
CVP	Central Valley Project
KBAO	Klamath Basin Area Office
LBAO	Lahontan Basin Area Office
MP	Mid Pacific Regional Office
MPCO	Mid-Pacific Construction Office
NCAO	Northern California Area Office
SCCAO	South Central California Area Office
TO	Tracy Office

CCAO

Contract No. R10PC20R15
Specification No. 20-C0649A
Fixed Wheel Gate Rehabilitation – American River Division – Folsom Unit - Central Valley Project, California
Abide International, Inc., Sonoma, CA

Work Performed:	November	0%
	Time Elapsed	77.6%
	Work Completed	41.0%
Contractor Earnings:	November	$0
	Previous	$2,529,703.18
	Total to Date	$2,529,703.18

Area Office Project Management
Project Manager: Jesse Castro, CC-607

Office Engineering
Contract Administrator: Larry Bowman, MPCO-240

No invoices were received this period.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Gustavo Aguilera, MPCO-337

Number of Contract Employees: 6

Work performed:
Folsom Fixed Wheel Gate Rehabilitation:
As the main contractor for this project, Abide International, Inc. was present at the jobsite during the month of November coordinating and overseeing all activities related to the Fixed Wheel Gates Rehabilitation Project.

By the beginning of this month the contractor finished stripping the FWG of all its components. Allied Environmental subcontractor came in and cleaned the FWG with pressure washer machines as per the specifications. All the waste water was stored in 55 gallon drums and 275 gallon plastic IBC plastic totes depending on the results from the environmental lab. After the cleaning, Monterey Mechanical subcontractor performed the installation of the replacement steel wheels and their components. By the end of the month the 12 wheels were in place and the FWG was ready for the rubber seals installation. The FWG stems made their way back from the shop where they were coated and Monterey Mechanical installed the new bushings on them. The contractor also received the rubber seals for the FWG and is expecting the seal clamp bars to continue with the work as expected.

Contract No. R10PC20019
Specification No. 20-C0689
Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement–
American River Division – Folsom Unit – Central Valley Project, California
Andritz Hydro Corp, Charlotte, NCFolsom Fixed Wheel Gate Rehabilitation:

Work Performed:	November	0%
	Time Elapsed	60.0%
	Work Completed	53.9%
Contractor Earnings:	November	$0
	Previous	$10,637,860.64
	Total to Date	$10,637,860.64

Area Office Project Management
Project Manager: Jesse Castro, CC-607

Office Engineering
Contract Administrator: Madelyn Giles, MPCO-210

No invoices were received this period.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Sergio Vivar, MPCO-311, Sean Frische, MPCO-317

Number of Contract Employees: 18

Work performed:
The contractor performed the following work:

- Shipped 44 rotor poles to Montreal, Canada for refurbishment, and cleaned the rotor and covered it with plastic.
- Hydro-drilled anchor bolt holes for the raised equipment platform columns of Exciter Unit 1.
- Completed the removal of existing key bars from the stator frame of Exciter Unit 1.
- Unsuccessfully attempted to resolve Exciter Unit 2 deficiencies. Deficiencies associated with the power system stabilizer, crowbar circuit, and over excitation limiter remain open for resolution.
- After Contract Measurement Services (CMS) used a Faro laser to verify the location of the holes along the bottom shelf of the stator frame, the contractor, in coordination with CMS, started setting and positioning the new key bars. Concurrent with key bar positioning, the contractor tack-welded the key bars to the stator frame. The contractor also began fully welding key bars in place.

IRS Environmental workers constructed a containment structure. They also removed wedges, stator winding, circuit rings and laminations from the stator core. They blasted (using crushed glass media) areas of the Stator frame to be welded during the rewind.

Folsom Power Plant Generators U1, U2, and U3 Rewind and Excitation System Replacement
Workers stand clear as one of the stator core windings is pulled loose and falls to the floor.

Contract No. R10PC20767
Specification No. 20-C0703
Folsom Power Plant U1, U2, and U3 Replacement Runners – American River Division – Folsom Unit – Central Valley Project, California
Voith Siemens Hydro Power Generation, Inc., York, PA

Work Performed:	November	0%
	Time Elapsed	78.3%
	Work Completed	72.1%
Contractor Earnings:	November	$0
	Previous	$5,283,450.21
	Total to Date	$5,283,450.21

Area Office Project Management
Project Manager: Jesse Castro, CC-607

Office Engineering
Contract Administrator: Madelyn Giles, MPCO-210

No invoices were received this period.

Field Engineering
Construction Manager: N/A supply contract
Construction Representative: N/A supply contract

Number of Contract Employees: N/A supply contract

Work performed: N/A supply contract

Contract No. R09PC20171
Specification No. 20-C0720
Nimbus Powerplant HVAC System Modification – American River Division – Folsom Unit, Central Valley Project, California
Perryman Mechanical, Inc., West Sacramento, CA

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	79.9%
Contractor Earnings:	November	$0
	Previous	$428,963.09
	Total to Date	$428,963.09

Area Office Project Management
Brian Zewe, CC-607A

Office Engineering
Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

The contractor is completing overdue submittals and is expected to complete submittal requirements in the next few months.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Todd Dooley, MPCO-314

Number of Contract Employees: 0

Work performed:
No work was performed this period.

Contract No. R10PC20114
Specification No. 20-C0754
Folsom Dam – Safety of Dams Modification – MIAD Key-Block – American River Division, Folsom Unit, Central Valley Project, California.
Shimmick Construction Co., Inc., Sacramento, CA

Work Performed:	November	2.0%
	Time Elapsed	99.6%
	Work Completed	93.2%
Contractor Earnings:	November	$838,319.48
	Previous	$41,344,149.57
	Total to Date	$42,182,469.05

Area Office Project Management
Project Manager: Larry Hobbs, CC-106

Office Engineering
Contract Administrator: Larry Bowman, MPCO-240

Invoice 28 was received and forwarded to Denver for processing.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Howard Diedrich, MPCO-316, Sean Frische, MPCO-317

Number of Contract Employees: 36

Work Performed:
CELL F:
Shimmick Construction Co., Inc. finished placing the lean concrete at Cell F this month. A total of 6,470 cyds (batch ticket quantity) from elevation 319' to 342.8'. Joint preparation was completed between each of the three lifts placed this month. The total cumulative concrete placed in Cell F was 10,020 cyds. SCCI also finished removing Level 4 and 3 bracing. SCCI started placing and compacting select backfill, backfill was completed to elevation 347'.

CELL C:
Shimmick Construction Co., Inc. finished final foundation cleanup. Bureau of Reclamation geology and TSC completed the final foundation mapping and coring. Lean concrete placement was completed from finished elevation 310.15' to 338'. Joint preparation was completed between each of the three lifts this month. A total of 7,780 cyds (batch ticket quantity) was placed this month. Level 5 and Level 4 bracing were also removed.

PROCESSING BACKFILL & LEAN CONCRETE AGGREGATE:
Shimmick Construction Co., Inc. resumed processing select backfill and lean concrete aggregate this month to fulfill the shortage in quantity. Approximately 24,000 tons of select backfill and 600 tons of lean concrete aggregate needs to be processed. Only the backfill was processed this month with 90% of the required quantity complete.

MODIFICATION 005:
Shimmick Construction Co., Inc. have staged the unused 2nd set of Level 6 bracing into transportable size.

MODIFICATION 007:
Shimmick Construction Co., Inc. started demobilizing partial dewatering system. Circuit 2 is offline for all the cells. Circuit 1 and 3 are being utilized to power the control panels at Cells C and F.

SMUD power is being utilized for powering the dewatering system, an 800kw generators is a backup.

Cartridge filters for the arsenic treatment were back-flushed twice a week to prevent cartridge loading.

Shimmick Construction Co., Inc.'s consultant HSI continued monitoring and recording data from the supplemental dewatering system for the two cells, daily average was 387gpm dewatered out of both cells.

Two 8'x20' connex were delivered to store all the Mod. 7 dewatering related items.

Contract No. R10PC20R57
Specification No. 20-C0760
Folsom Dam Civil Maintenance Building – American River Division – Folsom Unit - Central Valley Project, California
Building Solutions Inc., Reno, NV

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	95.8%
Contractor Earnings:	November	$0
	Previous	$6.484,513.45
	Total to Date	$6,484,513.45

Area Office Project Management
Project Manager: Ed Roza, CC-608

Office Engineering
Contract Administrator: John Zimmerman, MPCO-230

No invoices were received this period.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Michael E. Manlick, MPCO-313

Number of contract employees: 3

Work Performed:

The contractor delivered spare parts for the Fire Suppression System and two Class II, Division 2 heaters to replace installed non-compliant heaters within the Carpenter Shop in Quad B.

Rex Moore and Iron Mechanical installed and wired the duct smoke detectors in the four supply ducts from the building's evaporative cooler units.

Rex Moore programmed the four previously installed duct smoke detectors from the fire alarm control panel and installed an explosion-proof electrical receptacle in the Paint Storage room of Quad D.

Miles Construction used Rainbuster 650 sealant to stop roof leaks at the following locations:

- Roof-top fan above the Tire Storage Room 124 in Quad C
- Roof-top fan above the Paint Storage Room 130 in Quad D
- A ¾ inch electrical conduit penetrating the roof over Garage Room 122 in Quad B
- Both 10-inch vehicle exhaust venting ducts penetrating roof over Garage Room 122 in Quad B

- Clerestory Trim/Roof leak over the Planner Room 100 in Quad A

Folsom Dam Civil Maintenance Building
Duct smoke detector installed on an evaporative cooler supply duct

Contract No. R10PC20859
Specification No. None
Folsom Dam and Powerplant Site Security System – American River Division – Folsom Unit - Central Valley Project, California
Trofholz Technologies, Inc., Rocklin, CA

Work Performed:	November	1.3%
	Time Elapsed	102.5%
	Work Completed	97.3%
Contractor Earnings:	November	$83,505.58
	Previous	$6,113,853.35
	Total to Date	$6,197,358.93

Area Office Project Management
Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering
Contract Administrator: Kevin Jacobs, MPCO-214

Invoice 31 was received and forwarded to the Denver finance office for processing. It was not for work done this period but for work done through September 24, 2012.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Phil Moseby, MPCO-327

Number of Contract Employees: 2

Work Performed:
The contractor performed performance endurance tests successfully at the following locations: security control center building, generator building, pump plant building, Adit 4, cable tunnel, powerhouse, transformers deck door's carders, pump plant gate, perimeter gate, garage vehicle gate, roadway barrier (K12), Dikes 4, 5, and 6, Morman Island, entry control point, west pipeline and gate control.

Folsom Dam and Powerplant Site Security SystemCivil Maintenance Building
Contractor’s trailer and the lay down areas is clear and clean

KBAO

There were no active construction projects underway for the Klamath Basin Area Office in November 2012.

LBAO

There were no active construction projects underway for the Lahontan Basin Area Office in November 2012.

NCAO

Contract No. R10PC20744
Specification No. 20-C0712
J.F. Carr Power Plant, Generator G1 and G2 Rewinds – Trinity River Division – Central Valley Project California
National Electric Coil, Inc., Columbus, OH

Work Performed	November	0%
	Time Elapsed	100%
	Work Completed	98.0%
Contractor Earnings	November	$0
	Previous	$14,918,516.31
	Total to Date	$14,918,516.31

Area Office Project Management
Program Manager: John Dotter, NC-261

Office Engineering
Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Worked Performed:
The contactor did not perform any work this period. The contractor completed all base contract site work in September, and has scheduled site work under Modification 7 for November and December 2012. That will complete all contract site work.

Contract No. R10PC20102
Specification No. 20-C0755
Spring Creek Powerplant Generators G1 and G2 Rewinds – Trinity River Division – Central Valley Project, California
Andritz Hydro Corp., Charlotte, NC

Work Performed:	November	0%
	Time Elapsed	80.4%
	Work Completed	66.0%
Contractor Earnings:	November	$0
	Previous	$7,502,740.65
	Total to Date	$7,502,740.65

Area Office Project Management
Project Manager: Joe Ascoli, NC-650

Office Engineering
Contract Administrator: Kevin Jacobs, MPCO-214

No invoices were received this period.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 0

Work performed:
No site work was performed this period. Site work will begin again in November 2013.

Contract No. R12PC20044
Specification No. 20-C0774a
Station Service Switchgear Replacement – Trinity River Division – Central Valley Project, California
Eaton Corporation, Raleigh, NC

Work Performed:	November	0%
	Time Elapsed	64.4%
	Work Completed	0.4%
Contractor Earnings:	November	$0
	Previous	$9,600.59
	Total to Date	$9,600.59

Area Office Project Management
Project Manager: Jeff Gifford, NC-221

Office Engineering
Contract Administrator: Ryan Hennigan, MPCO-211

Notice to Proceed date: April 2, 2012

No invoices were received this period.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Frank Medberry, MPCO-341

Number of Contract Employees: 6

Work performed:
The following work was performed at the Spring Creek Power Plant.

Eaton Corporation: The crew mainly worked on the control panel CSA in the control room, removing switches and wires, and installing new lights, switches, control conductors, and meters. They assisted with buss duct installation, and started commissioning.

A&M Electric: Workers performed the following work:

- Installation of the temporary transformer, switchboard, and conductors to the individual panels
- Demolishing old switchgear and buss ducting
- Removed old conductors from conduits and cable trays
- Installed new switchgear and conductors to the six main panels and the switchgear
- Modified the buss duct

Cal Inc: Workers **r**emoved asbestos wire from Control Panel CSA, and demolished lead paint coated buss duct. They transported all removed hazardous material from the site.

Station Service Switchgear Replacement
Pulling new conductors into switchgear trough

Contract No. R10PC20025
Specification No. None
Coleman Fish Hatchery Water Intakes Vegetation Replacement and Monitoring – Shasta Division – Central Valley Project, California
Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	November	` 0%
	Time Elapsed	39.5%
	Work Completed	88.4%
Contractor Earnings:	November	$0
	Previous	$626,095.31
	Total to Date	$626,095.31

Area Office Project Management
Project Manager: Hank Harrington, NC-210

Office Engineering
Contract Administrator: Jacquelyn Olds, MPCO-202

No invoices were received this period.

Field Engineering
Construction Manager: Randy Wyatt, MPCO-305
Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 0

Work performed:
The contractor's current activity consists of maintaining vegetation it planted in 2010.

Contract No. R11PC20235
Specification No. None
Red Bluff Diversion Dam, Fish Passage Improvement Project, Terrestrial Mitigation – Sacramento Canal Units – Sacramento River Division – Central Valley Project, California
Tehama Environmental Solutions, Inc., Red Bluff, CA

Work Performed:	November	2.3%
	Time Elapsed	10.6%
	Work Completed	64.4%
Contractor Earnings:	November	$109,378.68
	Previous	$2,924,666.72
	Total to Date	$3,034,045.40

Area Office Project Management
Project Manager: Bill Vanderwaal, MPCO-122

Office Engineering
Contract Administrator: Jacquelyn Olds, MPCO-202

Invoice 5 was received this period and forwarded to the Denver finance office for processing. It was not for work done this period but for work done through September 24, 2012.

Field Engineering
Construction Manager: Randy Wyatt, MPCO-305
Construction Representative: Daniel Pavone, MPCO-333

Number of Contract Employees: 18

Work performed:
During this period the Tehama Environmental Solutions, Inc. crew collected and planted at the willow scrub areas. The crew also planted the blackberry, walnuts, sycamore, cottonwood, rose, elderberry, and grape at the mixed riparian forest at the southern island and northern island. The crew hauled some of the excavated and processed material off site. The crew removed the temporary gravel berm from the fish channel.

Subcontractor Delta Bluegrass's crew installed approximately 4,200 square feet of sod grass at the emergent marsh area near the lower inlet channel.

Modification #2
Subcontractor Meyers' crew worked on the vegetation removal at the southern island, the crew used heavy equipment to remove the vegetation and the dump trucks to haul off the vegetation to a disposal site. By the end of the operation, the crew re-graded the area to final elevation. TES crew worked on the vegetation removal at the southern island then racked the small pieces along the removal area in preparation for the hydro-seeding operation.

SCCAO

Contract No. R10PC20R32
Specification No. 20-C0749
Fish Screen Structure Phase 3, Contra Costa Canal – Central Valley Project, California
Flatiron West, Inc., Oakley, CA

Work Performed:	November	0.6%
	Time Elapsed	100%
	Work Completed	100%
Contractor Earnings:	November	$90,286.00
	Previous	$13,935,225.66
	Total to Date	$14,025,511.66

Area Office Project Management
Project Manager: John Dealy, TO-406

Office Engineering
Contract Administrator: Larry Bowman, MPCO-240

No invoices were received this period. Project completed on November 9, 2012 and transferred from construction to O&M status.

Field Engineering
Construction Manager: Henry Garcia, MPCO-310
Construction Representative: Henry Garcia, MPCO-310

Number of Contract Employees: 2

Work performed:
Subcontractor Transco successfully completed 30 day performance test.

Contract No. R10PC80R23
Specification No. 20-C0761
Delta-Mendota Canal–California Aqueduct Intertie – Central Valley Project – California
Shimmick Construction Company, Inc., Tracy, CA

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	99.2%
Contractor Earnings:	November	$0
	Previous	$15,194,493.71
	Total to Date	$15,194,493.71

Area Office Project Management
Project Manager: Erika Kegel, MP-730

Office Engineering
Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: Chris Van Deusen, MPCO-345

Number of Contract Employees: 2

Work performed:
All site work except for punch list items was completed in May 2012.

This period the following warranty work was performed.

Subcontractors Superior Fire and Sabah International ran a fan test on the control room to complete the testing submittal requirement.

Subcontractor Virginia Transformer inspected the transformer leak, repaired it, and replaced the temperature gage.

Suppliers delivered the remainder of the spare parts.

Eaton Electric performed the 50/51 relay programming.

Contract No. R11PC20185
Specification No. 20-C0778
Tracy 13.8kV Switchgear/Breaker Replacement – Tracy Pumping Plant and Substation – Central Valley Project, California
Contra Costa Electric Corp., Martinez, CA

Work Performed:	November	2.4%
	Time Elapsed	31.5%
	Work Completed	10.4%
Contractor Earnings:	November	$281,820.00
	Previous	$925,459.88
	Total to Date	$1,207,279.88

Area Office Project Management
Project Manager: Warren Feng, TO-438

Office Engineering
Contract Administrator: Amber Pierce, MPCO-205

This is a design/build contract.

Invoice 4 was received this period and forwarded to the Denver finance office for processing.

Field Engineering
Construction Manager: Steve Holmes, MPCO-320
Construction Representative: David Derk, MPCO-334

Number of Contract Employees: 0

Work performed:
No site work was performed because the contractor has not yet mobilized to the site. The contractor is scheduled to begin site work in February 2013.

Regional

Contract No. R10PC20005
Specification No. 20-C0717
North Fork Screens and Ladders – Battle Creek Salmon and Steelhead Restoration Project, California
Syblon Reid Contractors, Folsom, CA

Work Performed:	November	3.3%
	Time Elapsed	100%
	Work Completed	97.4%
Contractor Earnings:	November	$0
	Previous	$12,333,348.93
	Total to Date	$12,333,348.93

Area Office Project Management
Project Manager: Mary Marshall, MP-203

Office Engineering
Contract Administrator: Kent Perkes, MPCO-225

No invoices were received this period.

The remaining work for the contractor to perform is to gain approval of a few final submittals including as-built drawings.

Field Engineering
Construction Manager: Randy Wyatt, MPCO-305
Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 0

Work performed:
The contractor completed all contract site work in December 2011, and demobilized its field office. However substantial completion will not be issued until as-built drawings are approved.

Contract No. R10PC20R42
Specification No. 20-C0746
Hydropower Facility Modifications - Stage 1 – Battle Creek Salmon and Steelhead Restoration Project, California
RTA Construction/Ray Toney JV, Redding, CA

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	75.6%
Contractor Earnings:	November	$0
	Previous	$6,334,375.82
	Total to Date	$6,334,375.82

Area Office Project Management
Project Manager: Mary Marshall, MP-203

Office Engineering
Contract Administrator: Kent Perkes, MPCO-225

No invoices were received this period.

Field Engineering
Construction Manager: Randy Wyatt, MPCO-305
Construction Representative: John Pospishil, MPCO-321

Number of Contract Employees: 16

Work performed:
The contractor completed all site work on November 16, 2012, the contract completion due date.

Modification 11: The contractor completed Modification 11 work including installing permanent Stormwater Pollution Prevention Plan (SWPPP) Best Management Practices (BMPs).

Modification 12: M&J Electric terminated conductors into Distribution Panels DP-2 and DP-3.

Inskip Powerhouse Access Road: The contractor finished repairs and replacement of the access road to the powerhouse. The repairs and replacement was required due to damage caused by construction activities.

Hydroseeding: McEntire Landscaping completed hydroseeding the entire site.

Demobilization/Housekeeping: The contractor and subcontractors dismantled the Komatsu 1100 Excavator and demobilized from the site. The contractor also performed housekeeping and demobilizing of miscellaneous materials, office trailer, tools, equipment and temporary SWPPP B*M*Ps.

'A' Road: The contractor finished placing, grading, and compacting Class 2 aggregate base rock for the road and the fenced area at the upper jump basin.

Plateau Road Entrance: Eagle Paving placed and compacted asphalt for the entrance.

Purchase Order No. R10PX20R54
Specification No. 20-C0750
Drought Relief, Well Enhancements – ARRA Project No. 28.000 – Central Valley Project Don Don Pedro Pump, LLC–Turlock, CA

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	86.5%
Contractor Earnings:	November	$0
	Previous	$1,084,249.60
	Total to Date	$1,084,249.60

Area Office Project Management
Project Manager: Kevin Clancy, MP-410

Office Engineering
Contract Administrator: Ryan Hennigan, MPCO-211

No invoices were received this period.

Field Engineering
Construction Manager: John Nelson, MPCO-328
Construction Representative: John Nelson, MPCO-328

Number of Contract Employees: 0

Work performed:
No work was performed as the contractor is waiting for Pacific Gas and Electric to provide electrical power.

Contract No. R10PC20R80
Specification No. 20-C0759
Drought Relief – Construction of New Wells – ARRA Project No. 28.002 – California
Layne Christensen Company, Fontana, CA

Work Performed:	November	0%
	Time Elapsed	100%
	Work Completed	87.5
Contractor Earnings:	November	$0
	Previous	$13,619,671.88
	Total to Date	$13,619,671.88

Area Office Project Management
Project Manager: Kevin Clancy, MP-410

Office Engineering
Contract Administrator: John Zimmerman, MPCO-232

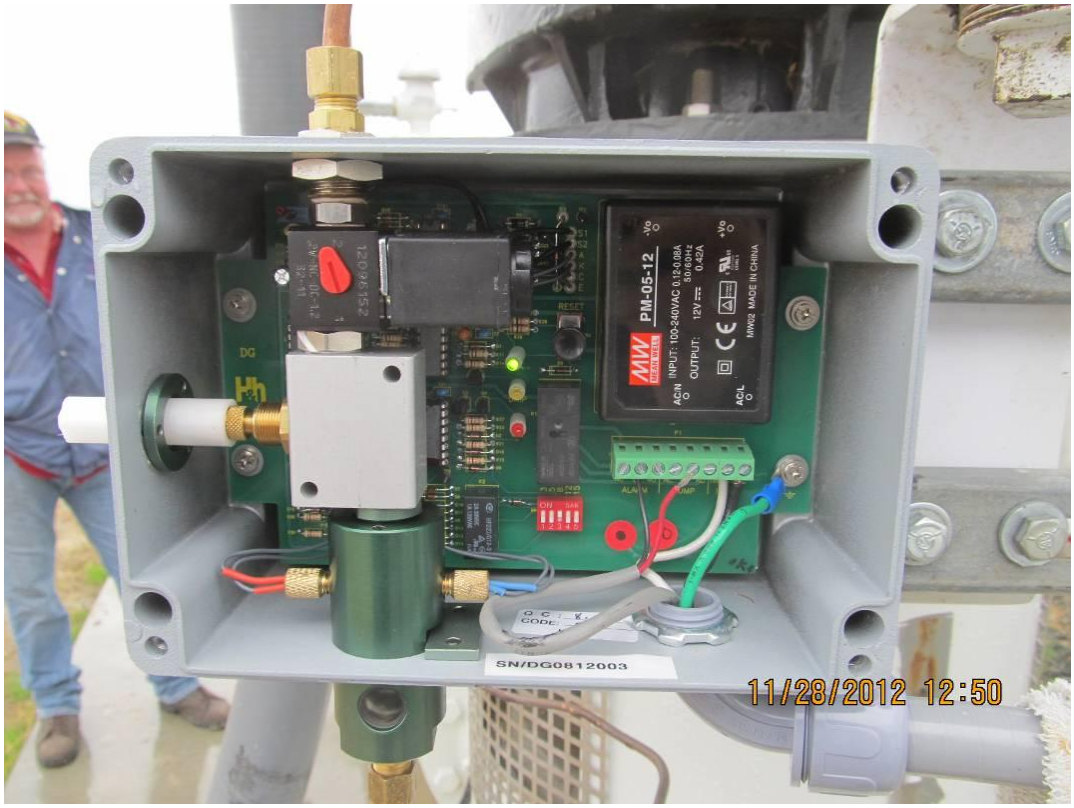
No invoices were received this period.

Modification 9 was executed this period. It resulted in a decrease in contract price of $640,577.44 and extended the contract completion date from October 31, 2012, to December 31, 2012.

Field Engineering
Construction Manager: John E. Nelson, MPCO-328
Construction Representative: John E. Nelson, MPCO-328

Number of Contract Employees: 0

Work performed:
No site work was performed this period. The contractor has scheduled all remaining work to be completed in December 2012.



Drought Relief – Construction of New Wells
New lubrication oil drip guard controls of Well P-X-01.
Green light indicates unit is functional

Contracts in Warranty Status

R09PC20R03 20-C0677 Transformer K1A and K2A Replacements, Folsom Power
There was no Office Engineering Administrative activity this period.
5-year warranty for K1A extends to January 30, 2016, and that for K2A extends to January 4, 2017.

R10PC20128 No. 20-C0706 New Melones Power Plant Excitation System Replacement
MPCO sent the contractor the Release of Claims this period.
1-year warranty extends to May 24, 2013.

R10PC20R11 20-C0730 Red Bluff Pumping Plant and Fish Screen, Pumps and Motors
There was no Office Engineering Administrative activity this period.
3-year warranty extends to August 2015.

R10PC20R09 20-C0740 Red Bluff Pumping Plant and Fish Screen, Landfill Excavation and Canal, Siphon and Access Bridge
There was no Office Engineering Administrative activity this period.
1-year warranty extends to December 21, 2012.

R10PC20R39 20-C0744 Volta Wasteway Refuge Level 2 Diversification Phase I Project – ARRA Project No. 28.129
There was no Office Engineering Administrative activity this period.
1-year warranty extends to February 9, 2013.

R10PX20R45 No. 20-C0750 Drought Relief, Well Enhancements
There was no Office Engineering Administrative activity this period.
1-year warranty for Tulare Irrigation District Well 1.16 extends to May 13, 2013. The 1-year warranties for all other wells have expired.

R10PC20R24 20-C0751 Folsom Dam, Safety of Dams Modifications, Spillway Piers and Gates
There was no Office Engineering Administrative activity this period.
1-year warranty extends to December 12, 2012.

R10PC20R33 20-C0752 Red Bluff Pumping Plant and Fish Screen
Invoice 30 was received and forwarded to Denver for processing.
1-year warranty extends to September 26, 2013.

R10PC20197 20-C0768 Control, Upgrade and Modernization of the Gantry and Bridge Cranes at the Folsom Dam and Powerplant
There was no Office Engineering Administrative activity this period.
2-year warranty extends to September 7, 2013.

R10PC20196 20-C0769 Control Upgrade and Modernization of the Gantry Crane at Nimbus Powerplant
There was no Office Engineering Administrative activity this period.
2-year warranty extends to June 13, 2013.

R11PC20155_No.20-C0776a_Delta Cross Channel Gate Control and Lighting Improvements
Closeout submittals were dealt with this period.
1-year warranty extends to April 24, 2013.

R12PC20055_20-C0776b_Delta Cross Channel Gate Hoist Wire Rope Replacement
There was no Office Engineering Administrative activity this period.
1-year warranty extends to May 11, 2013.

R11PC20158_20-C0777_Stampede Powerplant and Switchyard Recoatings
There was no Office Engineering Administrative activity this period.
1-year warranty extends to August 12, 2013.

R11PC20124_20-C0780_Coleman National Fish Hatchery Barrier Weir Site Modifications
There was no Office Engineering Administrative activity this period.
1-year warranty extends to September 28, 2013.

R12PC20193_20-C0791_Shasta Dam Traffic Circle Pavement Rehabilitation
There was no Office Engineering Administrative activity this period.
1-year warranty extends to August 4, 2013.

U.S. Bureau of Reclamation
SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
CONTROLLED BY THE RELATIVE DENSITY/RELATIVE COMPACTION METHOD

PROJECT: Central Valley
SPECIFICATION REQUIREMENTS:
Min Relative Compaction: 95.00 %
Max Relative Compaction: 95.00 %
PERIOD OF REPORT: 11/01/2012 - 11/30/2012

FEATURE: MIAD Key-Block
TOTAL MATERIAL PLACED:

SPECIFICATION NO: 20-C0754
UNITS PER ACCEPTED TEST:

FILL NAME: 1 - Key Block

TEST NUMBER							LOCATION			FIELD DENSITY TESTS								INDEX TESTS				GRADATION						
													SPEC GRAV		CONTROL FRACTION													
MONTH	DAY	SHIFT	NUMBER	TEST	STATUS	BORROW	STATION	OFFSET	ELEV	METH OF COMP	USBR TEST METH	WET DEN TOT MAT (PCF)	MOIS TOT MAT (%)	+3 IN	-3 IN	DRY DEN (PCF)	MOIS CONT (%)	DEG OF SAT (%)	MAX INDEX DEN (PCF)	MIN INDEX DEN (PCF)	REL DEN (%)	REL COMP (%)	+3" (%)	GRV (%)	SND (%)	FIN (%)	VISUAL SOIL CLASS	OTHER TESTS	REMARKS
11	27	A	01	R	A*	4	Cell F		344	VR	7205	148.6	4.6	2.73	2.71	138.3	4.6	54	142.2	0.0	100.0	97.3	17	63	21	6	GP	N	24'NOS 52'WOE
ACCEPTED TESTS THIS PERIOD: 1										AVG.		148.6	4.6	2.73	2.71	138.3	4.6	54	142.2	0.0	100.0	97.3	17	63	21	6			

STATISTICAL SUMMARY OF FIELD AND LABORATORY TESTS OF COMPACTED FILL
CONTROLLED BY THE RELATIVE DENSITY/RELATIVE COMPACTION METHOD

PROJECT: Central Valley

SPECIFICATION REQUIREMENTS:
Min Relative Compaction: 95.00 %
Max Relative Compaction: 95.00 %

PERIOD OF REPORT: 11/01/2012 - 11/30/2012

FEATURE: MIAD Key-Block

TOTAL MATERIAL PLACED:

SPECIFICATION NO: 20-C0754

UNITS PER ACCEPTED TEST:

FILL NAME: 1 - Key Block

	This Period	To Date
No. of Tests Taken	1	10
No. of Tests Accepted	1	10
No. of Tests Rejected	0	0
No. of Rejected Tests not Re-Checked	0	0
Average Percent +3-Inch Material	17.0	3.4
Average Percent Gravel	63.0	58.7
Average Percent Sand	21.0	31.8
Average Percent Fines	6.0	8.0
Average Wet Density Total Material (PCF)	148.6	152.1
Average Moisture Content Control Fraction (%)	4.6	4.7
Average Dry Density Control Fraction (PCF)	138.3	146.5
Average Minimum Dry Density (PCF)	0.0	0.0
Average Maximum Dry Density (PCF)	142.2	143.5
Average Percent Relative Density (PCF)	100.0	100.0
Average Percent Relative Compaction (PCF)	97.3	102.1
Percent of Accepted RC Tests Less Than 95.00	0.0	0.0
Percent of Accepted RC Tests Greater Than 95.0	100.0	100.0
Tests Accepted Outside of Specification Limits	1	10
Maximum RC of 95.0	1	10

Concrete Construction Data

Concrete Class: Lean Concrete Fill
Report of Mixes Used From 10/25/2012 to 11/30/2012

Mix Design Number: 1529207
Specification Number: 20-C0754
Project: MIAD Key-Block
Feature: Lean Concrete

Date Time	y^3 of Conc	Percent Of Coarse Aggregate in each size: Sand	CA1	CA2	CA3	CA4	Yield Quantities per Cubic Yard — Pounds: Water	Cem	Poz	Sand	C.A.	AD#3	Oz: AEA	WRA	AD#4	AD#5	Cem Eff	T E M P	Fresh Concrete Tests: Slump (ins)	UW (pcf)	W/ C+P	Air — Grav Meth	Air — Press Meter	Compressive Strength Of Individual Specimens (psi): 3 Day	7 Day	28 Day	90 Day	180 Day	1 Year
10/25/2012																													
08:13	887.50	70.6	100.0	0.0	0.0	0.0	469	399	107	1990	830	0	0.0	0.0	0.0	0.0	3.9	67	5.00	140.6	0.93	-0.1	1.5	940	1590	######			
																								920	1540	######			
10:16	887.50	70.6	100.0	0.0	0.0	0.0	475	405	103	2008	836	0	0.0	0.0	0.0	0.0	3.9	69	5.50	141.7	0.94	-1.0	1.0	920	1530	######			
																								920	1610	######			
13:07	887.50	70.5	100.0	0.0	0.0	0.0	472	406	103	2008	842	0	0.0	0.0	0.0	0.0	3.4	72	7.00	141.9	0.93	-1.0	1.0	920	1370	######			
																								910	1360	######			
16:21	887.50	70.5	100.0	0.0	0.0	0.0	472	402	101	1992	832	0	0.0	0.0	0.0	0.0	3.7	72	6.50	140.7	0.94	-0.3	1.5	840	1450	######			
																								850	1530	######			
11/02/2012																													
08:30	700.00	70.4	100.0	0.0	0.0	0.0	476	405	105	1998	839	0	0.0	0.0	0.0	0.0	3.8	68	6.75	141.6	0.93	-0.9	1.3	1010	1510	######			
																								1010	1570	######			
11:09	700.00	70.4	100.0	0.0	0.0	0.0	474	405	106	1996	840	0	0.0	0.0	0.0	0.0	3.8	73	5.75	141.5	0.93	-0.9	1.2	920	1550	######			
																								970	1520	######			
12:56	700.00	70.4	100.0	0.0	0.0	0.0	474	405	102	2001	840	0	0.0	0.0	0.0	0.0	4.0	75	5.75	141.6	0.93	-0.9	1.3	1000	1600	######			
																								1010	1630	######			
15:08	700.00	70.5	100.0	0.0	0.0	0.0	474	408	101	2007	841	0	0.0	0.0	0.0	0.0	3.9	73	5.75	141.9	0.93	-1.1	1.5	1010	1620	######			
																								1000	1540	######			
11/06/2012																													
08:06	662.50	84.8	100.0	0.0	0.0	0.0	465	397	97	2361	425	0	0.0	0.0	0.0	0.0		69	6.00	138.7	0.94	1.2	0.7	900	######	######			
																								940	######	######			
11:11	662.50	71.1	100.0	0.0	0.0	0.0	478	404	98	2006	816	0	0.0	0.0	0.0	0.0		71	5.00	140.8	0.95	-0.5	0.7	1000	######	######			
																								990	######	######			
13:16	662.50	71.1	100.0	0.0	0.0	0.0	482	410	104	2023	822	0	0.0	0.0	0.0	0.0		74	5.50	142.3	0.94	-1.6	1.8	1010	######	######			
																								1020	######	######			
14:28	662.50	71.2	100.0	0.0	0.0	0.0	472	396	98	1980	801	0	0.0	0.0	0.0	0.0		74	5.50	138.8	0.96	0.8	0.7	1010	######	######			
																								990	######	######			
11/10/2012																													
07:59	617.50	68.7	100.0	0.0	0.0	0.0	473	403	104	1966	894	0	0.0	0.0	0.0	0.0		64	6.25	142.2	0.93	-1.1	0.3	930	######	######			
																								950	######	######			
10:47	617.50	69.1	100.0	0.0	0.0	0.0	471	401	104	1943	870	0	0.0	0.0	0.0	0.0		69	6.50	140.3	0.93	0.0	0.3	1090	######	######			
																								1050	######	######			
12:57	617.50	69.0	100.0	0.0	0.0	0.0	475	405	106	1958	879	0	0.0	0.0	0.0	0.0		71	6.00	141.6	0.93	-0.9	1.2	1070	######	######			
																								1010	######	######			
14:49	617.50	69.1	100.0	0.0	0.0	0.0	471	402	102	1954	875	0	0.0	0.0	0.0	0.0		68	6.50	140.9	0.93	-0.3	0.8	970	######	######	######	######	
																								980	######	######	######	######	
11/14/2012																													
07:05	687.50	71.0	100.0	0.0	0.0	0.0	473	404	103	2018	825	0	0.0	0.0	0.0	0.0		60	6.00	141.6	0.93	-0.7	0.5	970	######	######			
																								930	######	######			
09:52	687.50	70.9	100.0	0.0	0.0	0.0	474	404	103	2020	830	0	0.0	0.0	0.0	0.0		67	7.00	141.9	0.93	-1.0	0.4	930	######	######			
																								830	######	######			
12:25	687.50	70.9	100.0	0.0	0.0	0.0	476	406	103	2019	827	0	0.0	0.0	0.0	0.0		68	5.00	141.9	0.94	-1.1	0.5	980	######	######			
																								960	######	######			
14:28	687.50	70.9	100.0	0.0	0.0	0.0	475	405	102	2012	824	0	0.0	0.0	0.0	0.0		73	5.50	141.4	0.94	-0.8	0.5	940	######	######	######	######	
																								940	######	######	######	######	

11/15/2012																									
11:58	600.00	69.7	100.0	0.0	0.0	0.0	471	402	101	1964	853	0	0.0	0.0	0.0	0.0	68	6.50	140.4	0.94	0.0	0.5	870	######	######
																							890	######	######
15:04	600.00	69.7	100.0	0.0	0.0	0.0	469	400	102	1959	850	0	0.0	0.0	0.0	0.0	70	6.75	140.0	0.93	0.3	0.4	800	######	######
																							800	######	######
11/27/2012																									
07:22	595.00	69.5	100.0	0.0	0.0	0.0	473	404	103	1975	866	0	0.0	0.0	0.0	0.0	62	6.50	141.6	0.93	-0.7	0.5	######	######	######
																							######	######	######
08:45	595.00	69.5	100.0	0.0	0.0	0.0	473	403	101	1968	862	0	0.0	0.0	0.0	0.0	59	6.00	141.0	0.94	-0.4	0.5	######	######	######
																							######	######	######
10:33	595.00	69.5	100.0	0.0	0.0	0.0	474	404	102	1970	863	0	0.0	0.0	0.0	0.0	63	7.00	141.2	0.94	-0.6	0.5	######	######	######
																							######	######	######
12:41	595.00	69.7	100.0	0.0	0.0	0.0	473	402	103	1981	863	0	0.0	0.0	0.0	0.0	63	6.75	141.6	0.94	-0.7	0.5	######	######	######
																							######	######	######
Design		45.0	100.0	0.0	0.0	0.0	475	399	101	1257	1542	0	0.0	0.0	0.0	0.0		8.00	139.8	0.95	0.4	0.4		1000	
AVG.		70.7	100.0	0.0	0.0	0.0	473	403	102	2003	829	0	0.0	0.0	0.0	0.0	3.8 69	6.09	141.1	0.94	-0.6	0.8	952	1533	
S.D.		2.9	0.0	0.0	0.0	0.0	3	3	2	77	85	0	0.0	0.0	0.0	0.0	0.2 4	0.63	0.9	0.01	0.6	0.4	66	80	
C.O.V		4.2	0.0	0.0	0.0	0.0	0.7	0.8	2.3	3.8	10.3	0.0	0.0	0.0	0.0	0.0	5.1 6.5	10.4	0.7	0.7	**.*	53.4	7.0	5.2	

Bureau.....: Required average strength = 1112 psi at 28 days. Based on 90% exceeding the design strength of 1000 psi & C.O.V. (n=62) = 7.8
ACI.....: Required average strength = 1154 psi at 28 days (n=62)
CURE METHOD..: Water Tank with an Average Cure Temperature of 59 - 76 (F)

= Specimen not broken as of report date.

U.S. Bureau of Reclamation
Aggregate Gradation Summary

From 2/16/2012 to 11/30/2012

Specification : 20-C0754
Mix Number : 1534982
Project : MIAD Key-Block
Feature : MIAD Key-Block Lean Concrete

Nominal Size : 1" (ASTM)

Combined Aggregate Gradations for Lean Concrete

	Percent Passing Screen Sizes in Inches or Sieve Size Shown								
Date	1 1/2"	1"	1/2"	#4	#8	% -200	Moist %	Spec Grav	Absorp
Spec Max %		100.0		50.0		10			
Spec Min %		100.0		0.0		0			
02/16/2012D		100.0		45.9		8.1	N/A	2.72	1.00
02/23/2012D		100.0		43.5		7.7	3.15	2.72	1.00
03/02/2012B		100.0		42.9		6.6	5.5	2.72	1.00
03/05/2012D		100.0		47.2		7.9	N/A	2.72	1.00
03/09/2012B		100.0		48.3		7.8	5.5	2.72	1.00
03/21/2012B		100.0		46.6		7.9	5.0	2.72	1.00
06/28/2012E		100.0		50.8		9.5	N/A	2.72	1.00
07/10/2012E		100.0		46.4		8.5	N/A	2.72	1.00
07/12/2012A		100.0		44.8		8.3	N/A	2.72	1.00
07/17/2012E		100.0		43.3		8.1	N/A	2.72	1.00
07/19/2012A		100.0		45.2		8.3	N/A	2.72	1.00
07/24/2012E		100.0		47.7		9.2	N/A	2.72	1.00
07/26/2012A		100.0		44.2		7.9	N/A	2.72	1.00
07/31/2012A		100.0		44.3		8.1	N/A	2.72	1.00
10/25/2012F		100.0		46.4		7.9	N/A	2.72	1.00
11/02/2012F		100.0		46.3		8.0	N/A	2.72	1.00
11/06/2012C		100.0		47.7		8.8	N/A	2.72	1.00
11/10/2012F		100.0		43.7		8.1	N/A	2.72	1.00
11/14/2012C		100.0		47.3		8.3	N/A	2.72	1.00
11/15/2012F		100.0		45.1		8.4	N/A	2.72	1.00
11/27/2012C		100.0		44.7		8.3	N/A	2.72	1.00
Average		100.0		45.8		8.2	3.80	2.72	1.00